

R. J. CLAY.  
Toy Automaton.

No. 140,765.

Patented July 15, 1873.

Fig. 2

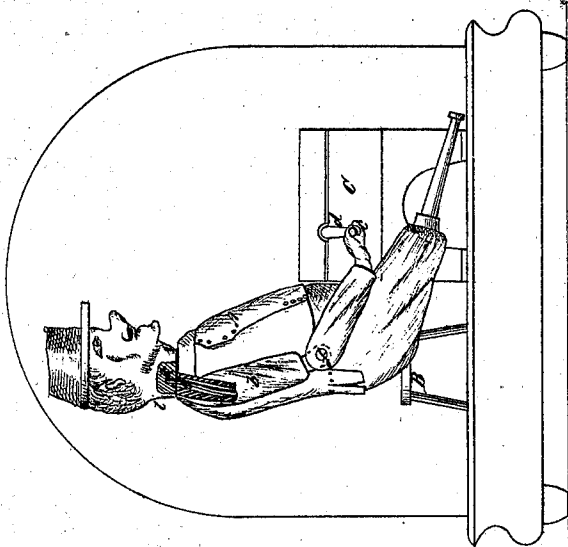
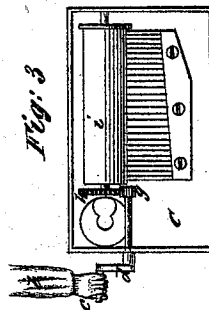
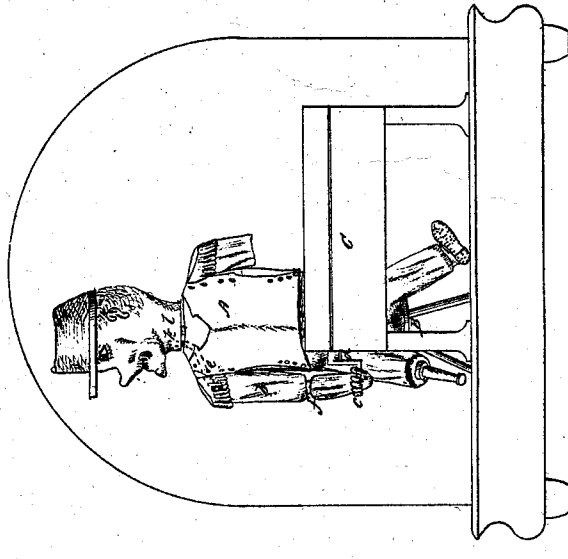


Fig. 1



Witnesses:

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# UNITED STATES PATENT OFFICE.

ROBERT J. CLAY, OF NEW YORK, N. Y.

## IMPROVEMENT IN TOY AUTOMATONS.

Specification forming part of Letters Patent No. **140,765**, dated July 15, 1873; application filed June 14, 1872.

### *To all whom it may concern:*

Be it known that I, ROBERT J. CLAY, of the city, county, and State of New York, have invented a new and useful Mechanical Organ-Grinder Toy; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a front elevation; Fig. 2, a partly-broken side elevation; and Fig. 3, a plan, in part, of the musical box or organ, with the lid removed, and showing the connection of the automaton with the playing-barrel.

Similar letters of reference indicate corresponding parts.

My invention consists in a combination of an automaton figure, representing an organ-grinder with a musical box or organ, and certain devices or attachments for communicating motion to the arm of the grinder, as if he were engaged in grinding or playing the organ, also a motion by which the head of the automaton is kept turning to and fro in imitation of a natural life movement.

In the accompanying drawing, A is the automaton representing a street organ-grinder as seated on a stool, B, and as engaged in playing a hand-organ, C. The arm *b* of said automaton, the hand *c* of which has hold of the playing-crank *d* of the organ, works on a shoulder-pivot or joint-spindle, *e*, and said arm is further jointed at the elbow *f*, so that on the crank *d* being rotated the arm *b* has com-

municated to it a natural life movement. The crank *d* is rotated by a pinion, *g*, on its shaft, arranged to gear with a wheel, *h*, on the barrel *i* of the organ, which latter may be an ordinary musical box that may be wound up by a key, or otherwise. The shoulder-pivot or spindle *e* is attached to the arm *b*, so as to move with the latter, and is extended into the body of the figure and formed with a lever or crank, *k*, at its inner end. This cranked portion *k* is arranged to play through a slot or opening in the upper portion of the body, and projects up into the neck *l* of the head of the automaton, on one side of a central pivot connecting the head with the body, so that as the arm *b* is rocked by the crank *d* the lever or cranked portion *k* gives a lateral or turning motion, to and fro, to the head.

The whole toy may be set upon a stand and covered by a glass shade, as represented in the drawing.

What is here claimed, and desired to be secured by Letters Patent, is—

1. The combination, with the barrel *i*, of the gears *g h*, the crank *d*, and the arm *b* of the automaton, substantially as specified.

2. The combination of the cranked shoulder-joint spindle *e* with the head of the automaton, fitted so as to be capable of turning the arm *b* and the crank *d*, set in motion by the organ, essentially as herein set forth.

ROBERT J. CLAY.

Witnesses:

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